

TUESDAY

8:00-8:30 INTRODUCTION (Dave Rusch)

Comments by Mary Mellott

Overview Talks

8:30 – 9:00 **Solar**: Karel Schrijver

9:00 – 9:30 **Heliosphere**: Jack Gosling: “The Solar Wind and Heliosphere: A Brief Overview”

9:30 – 10:00 **Magnetosphere**: Bob McPherron: “Response of the Magnetosphere to Solar Wind Coupling”

10:00 – 10:30 **Ionosphere/Atmosphere**: Dave Siskind

10:30 – 11:00 Break

Solar – Causes (Chair: Rod Heelis)

11:00 -11:15 Sarbani Basu, Dave Hathaway: "The solar interior during the cycle 24 minimum compared with the cycle 23 minimum

11:15 – 11:30 Dave Hathaway: "Meridional flow variations as the cause of the long deep solar cycle 23/24 minimum"

11:30 -11:45 Pete Riley: "Understanding the Unique Features of the Recent Solar Minimum using a Global MHD Model of the Corona and Heliosphere"

11:45 – 12:00 Dave Hathaway: “Synchronic Magnetic Maps - the Inner Boundary Condition for the Heliosphere”

12:00 – 12:15 Tom Woods: “Why is the solar irradiance lower in 2008?”

12:15 – 12:30 Guiliana De Toma: “Coronal hole evolution during the cycle 23 minimum: Implication for the solar wind”

12:30 – 1:30 Lunch

1:30 – 1:45 Marty Snow: “Active Longitudes Over Three Solar Cycles”

1:45 – 2:00 Frank Eparvier: "New Insights into the Solar EUV Spectral Irradiance from SDO-EVE"

2:00 -2:15 Mausumi Dikpati: "Understanding theoretically why the Sun's meridional flow in cycle 23 was unusual"

2:15 – 3:15 Solar Panel: Schrijver, Woods, De Toma (Recorder: Tom Woods)

3:15 -4:00 Break

Heliosphere - -Consequences (Chair: Stan Solomon)

4:00 – 4:15 James Adams, Florinski and Washimi: “Galactic Cosmic Ray Modulation in the Heliosheath”

4:15 – 4:40 Alan Cummings: "Voyager Observations of Energetic Particles in the Heliosheath"

4:40 – 4:55 Vladimir Florinski, Heerikhuisen, Pogorelov, Guo, Mueller, Hu, Adams, Washimi, Senanayake: "The global heliosphere during the recent solar minimum: implications for cosmic rays"

4:55– 5:10 Susan Lepri: “Composition of the Slow Solar Wind from Minimum to Minimum”

5:10 – 5:25 Rick Leske: "Unusual Intensities of Anomalous and Galactic Cosmic Rays at 1 AU During the Cycle 23/24 Solar Minimum"

5:25 -5:40 Alexis Rouillard: “Combined white-light and in-situ observations of helmet streamers and the heliospheric plasma sheet during the recent solar minimum”

5:40 – 5:55

6:00 – 7:30 Poster Reception

WEDNESDAY

9:00 – 10:00 Heliosphere Panel: Gosling, Leske, Smith (Recorder: Pete Riley)

10:00 -11:00 Break

Magnetosphere – Consequences (Chair: Jeff Thayer)

11:00 – 11:15 Shin-ichi Ohtani: “Field-aligned currents in the context of electromagnetic coupling of the solar wind-magnetosphere-ionosphere system”

11:15 – 11:30 Simon Wing: “Dayside field-aligned currents and electron participation during the Minimum of Solar Cycle 24”

11:30 -11:45 Joseph Borovsky

11:45 – 12:00 Scot Elkington: “Radiation belt loss processes”

12:00 -12:15 Charles W. Smith, Nathan A. Schwadron, and David E. Connick: “Measurements of Ongoing Magnetic Reconnection Below the Alfvén Critical Point During the Protracted Solar Minimum”

12:15 – 12:30 Weichao Tu: “Quantification of the Precipitation Loss of Radiation Belt Electrons Observed by SAMPEX”

12:30 – 1:30 Lunch

1:30 -1:45 Bob McPherron: “Geomagnetic Activity during the Prolonged Minimum of Solar Cycle 24”

1:45 -2:00 Delores Knipp: “Poynting flux energy deposition during intervals of Large IMF”

2:00 – 3:00 Magnetosphere Panel: Panel: McPherron, Elkington (Recorder:)

3:00 - 4:00 Break

Atmosphere – Consequences (Chair: Tom Woods)

4:00 – 4:15 Jeff Thayer: “Impact of solar wind high speed streams on the thermosphere and ionosphere”

4:15 – 4:30 Sharon Vadas: “Global changes during the minimum of SC24 as a result of the propagation and dissipation of gravity waves from deep convection”

4:30 – 4:45 Stan Solomon: “Model Simulations of Thermosphere and Ionosphere Density during Solar Minimum”

4:45 – 5:00 John Emmert: "Inter-cycle minima differences in thermospheric mass density, exospheric temperature, and ionospheric total electron content"

5:00 - 5:15 Rod Heelis: "Large and small-scale structures in the ionosphere at solar minimum"

5:15 – 5:30 Gary Thomas: "Polar Mesospheric Cloud Behavior during Solar Minimum 24"

Thursday

8:30 – 8:45 James Russell and Marty Mlynzcak: "Infrared Spectral Signatures of Solar Variability in the Thermosphere and Mesosphere"

8:45 – 9:00 Eduardo A. Araujo-Pradere, Dominic Fuller-Rowell, Rob Redmon, Rodney Viereck, Tim F span: "Comparative Study of the Global Ionospheric Behavior During Solar Cycles 22-23 and 23-24 Minima"

9:00 – 9:15 Aimee W. Merkel, Jerald W. Harder, Daniel R. Marsh, Anne K. Smith, Juan M. Fontenla, Tom Woods: "The impact of solar spectral irradiance variability on middle atmospheric ozone"

9:15 – 10:15 Panel - Heelis, Russell, Siskind (Recorder:)

10:15 – 11:00 Wrap up and Future Plans (Rusch)

Chapman Conference Committee: Eduardo Araujo-Pradere (chair), Pete Riley, Jeff Thayer, Dave Rusch, Simon Wing

11:00 Adjourn